

L 01516-66 FWT(d)/FWT(1)/EED-2 GW/BC

ACCESSION NR: AP5020911

UR/0006/65/000/008/0010/0014
528.517

AUTHOR: Virovets, Yu. B. ⁵⁵

36

TITLE: The improved SDD-M optical range finder ¹

B

SOURCE: Geodeziya i kartografiya, no. 8, 1965, 10-14

TOPIC TAGS: geodetic instrument, geodimeter, range finder, SDD M range finder

ABSTRACT: Field tests of the SDD phased-light range finders developed in 1963 for use in the second-order surveys executed by organizations of the Main Administration of Geodesy and Cartography (GUCK) disclosed that frequent and time-consuming checks of instrumental constant corrections were necessary. This paper describes the techniques and procedures used by the author to overcome this deficiency. Features incorporated in the new model (SDD-M) included 1) design and construction of a calibration bench similar to that used with the EOD-1 precision geodimeter, which made it possible to determine the correction constant over a short line instead of the previously used long distance; 2) use of a polarizing prism in the receiver, which eliminated the migration of the floating "spot" across the surface of the photo-multiplier cathodes so that all (instead of half) of the light rays were conveyed

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to each photomultiplier, thus increasing the range by about 20%. Field investigations of the equipment, using revised observation procedures, were carried out in 1964. The results were very favorable and demonstrated that the correction constant of the range finder could be determined over a 7-m line with an error of ± 5 mm, and the number of readouts required in a single observation could be reduced to 48 (from 192) with a 1:300,000 accuracy in distance measurement. Orig. art. has: 4 tables. [ER]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, op

NO REF SOV: 001

OTHER: 000

ATD PRESS: 4088

Card 2/2

VIROVETS, Yu.B., student IV kursa

Direct method of determining the geodetic azimuth using a photoelectric technique. Trudy MIIGAIK no.50:97-101 '62.

(MIRA 16:7)

1. Kafedra astronomii, astronomo-geodezicheskiy fakul'tet
Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i
kartografii.

(Azimuth)

(Photoelectricity)

VIROVETS, Yu.B.; DEMUSHKIN, A.I.; PRILEPIN, M.T.

Testing an experimental model of the SDD geodimeter. Geod.1
kart. no.10:8-14 O '62. (MIRA 15:12)
(Geodimeter—Testing)

VIROVLYANSKIY, G. M.

Doc Geol-Min Sci - (diss) "Principles of the formation of the structure of ore fields. On the example of arsenopyrite deposits." Moscow, 1961. 36 pp; (Ministry of Geology and Mineral Resources Conservation, USSR, All-Union Scientific Research Geological Inst "VSEGEI"); 150 copies; price not given; list of author's works at end of text (12 entries); (KL, 5-61 sup, 179)

VIROVLYANSKIY, G.M.; BLAGODETELEVA, Yu.N.

New data on the structure of the Khibiny apatite deposits. Dokl.
AN SSSR 154 no.1:94-97 Ja'64. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhi-
micheskogo syr'ya. Predstavleno akademikom V.I. Smirnovym.

VIROVLYANSKIY, G. M.

15-57-7-9526

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
pp 126-127 (USSR)

AUTHOR: Virovlyanskiy, G. M.

TITLE: Intrusion of Dikes and Formation of Ores in Hydro-
thermal Deposits (O tektonicheskikh usloviyakh
vnedreniya dayek i formirovaniya rud v gidrotermal'-
nykh mestorozhdeniyakh)

PERIODICAL: Sov. geologiya, 1956, sb. Nr 50, pp 67-89.

ABSTRACT: The author questions the views of F. I. Vol'fson that
vein matrix is intruded into host rock under conditions
of expansion, while ore veins are formed under con-
ditions of compression, and that the expansion during
intrusion of matrix is the result of compression
oriented parallel to the direction of the matrix. He
analyzes the process of opening of fissures in the
period of intrusion of the matrix on the basis of
numerous examples and extensive statistical data.

Card 1/3 He then describes: 1) the form and arrangement of

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Intrusion of Dikes and Formation of Ores (Cont.)

ore-containing fissures, 2) the mineral filling typical of a large number of hydrothermal deposits, which reflects relatively free conditions of formation of mineral substance; 3) the series of movements occurring in fissures during the period of their filling. These movements, in the majority of cases, correspond to faults which develop as a result of expansion of the earth's crust. The presence in ore deposits of not one but a number of differently oriented systems of dikes of matrixes and mineral veins makes it impossible to consider the opening of fissures to be the result of parallel compression. The opening of fissures and formation of dikes and mineral veins occur under conditions of two-directional expansion, usually with one direction predominating. Expansion in the second direction has no independent significance and represents the result of the original forces. In no case does the deformation occur in a single plane. Shearing stresses acting during the opening of fissures and during formation in them of mineral bodies are the cause of faulting. The deformation has a characteristic orientation--the axis of elongation is normal to the direction of the best developed system of mineral bodies, while the axis of shorten-

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• Intrusion of Dikes and Formation of Ores (Cont.)

ing is usually vertical. The conditions of formation of matrix dikes and mineral veins of hydrothermal origin are similar, and the tectonic factors typical for the formation of fissures during various stages of filling have much in common. However, this does not mean that these stages are a continuation of each other. The structures of ore deposits show that stages of expansion are usually separated by a period of compression of the given sector of the earth's crust. Fault formation is renewed in the period of ore deposition and is interrupted (possibly repeatedly) in the post-ore-forming period. This is indicated by the numerous small upthrust and overthrust displacements in various ore deposits.

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I. V. Kunayev

VIROVIYANSKIY, G.M.; BLAGODETELEVA, Yu.N.

Postmagmatic tectonics of the Khibiny astatite deposit and its
significance for prospecting. Sov.geol. 8 no.2:45-59 P '65.
(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-
khimicheskogo syr'ya.

VIROVLYANSKIY, G.M.

CA

Quartz from the Pakem River (western Tyan Shan).
G. M. Virovlyanskiy. *Mem. soc. russ. mineral.* 67,
284-46 (1939); *Zh. Min. Referat. Zhur.* 1939, No. 10, 22.
Quartz, hercynite, epidote, chlorite and calcite were found
in the veins. Four generations of quartz are described.
On the basis of paragenetic relationships, character of the
doublers, virgals and habitus of the crystals of quartz, V.
makes an attempt to det. the temp. limits of the crystals
of the described quartz. Combining his conclusions with
mineralogical schemes of Maucher and Kall he refers the
1st obelisk-like generation to 310-300° and considers that
in this scheme it will occupy an independent place as a
new intermediate type. For the 4th generation the lower
temp. limit is 180°.
W. R. Henn

AND SLA METALLURGICAL LITERATURE CLASSIFICATION

VIRGILYANSKIY, G M

The microgenetic importance of vicinal formations on the faces of quartz. G. M. Sirotyanskii. *Vestn. nauch. issled. mineral. otz.* 146 (201924); *Khim. Neftel. Zhur.* 1946, No. 6, 22. - A study of the vicinals on the faces of the basic rhombohedron of quartz crystals did not indicate their microgenetic importance as proposed by G. Kulb (cf. C. A. 29, 35719). W. R. Henn

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ASD-324 METALLURGICAL LITERATURE CLASSIFICATION

VIROVTSIA, A.M., prof.; MAUYERER, V.G., inzh.; TROITSKIY, B.V., inzh.;
IVANOV, V.F., inzh.; PETROVA, Ye.F., inzh.; BARVENKO, Ye.I.,
inzh.; SHISHKIN, V.N., inzh.

[Tables of Gauss-Kruger coordinates for latitudes 32° - 80°
at 5' intervals and for longitudes 0° - 6° at $7\frac{1}{2}'$ intervals
and tables of side and area dimensions of trapezoids in to-
pographic surveys; Krasovskii's ellipsoid] Tablitsy koordinat
Gausa-Kriugera dlia shirot ot 32° do 80° cherez 5' i dlia
dolgot ot 0° do 6° cherez $7\frac{1}{2}'$ i tablitsy razmerov ramok i
ploschadei trapetsii topograficheskikh s"emok ellipsoid
Krasovskogo. 2. izd., ispr. i dop. Moskva, Izd-vo geodez.
lit-ry, 1961. 512 p. (MIRA 15:9)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i
kartografii.

(Coordinates)

26393
S/032/51/027/008/018/020
B124/B215

Device for measuring...

The shields are adjusted by guides 16 and fixed in position by stop screws 17. The probes, made of pointed molybdenum or tungsten wire are 27 mm in length and 0.5 mm in diameter, and are insulated from the shields by lundum tubes. Tantalum plates press the probes onto the specimen. The whole system is placed in a molybdenum glass envelope. The current passing through the specimen is measured by a УТТ-6 (UTT-6) transformer and an ЭНА, АСТ (ELA, AST) ammeter. Amperage is controlled by a ПН-20 (PNO-20) autotransformer. The voltage drop at the specimen is controlled with an ЛВ-9-2 (LV-9-2) tube voltmeter, and its temperature is regulated by a tungsten-rhenium thermocouple and an МП(МР) micropyrometer. The device may be used for measuring the resistivity of specimens 10 mm long and 4 mm in diameter. The error of measurement is 5.2 %. The results obtained for titanium carbide (linear dependence of resistivity on temperature) are in good agreement with those obtained by N. V. Kolomojets, V. S. Neshpor, G. V. Samsonov, and S. A. Semenkovich (Ref. 2: Zhurnal tekhnicheskoy fiziki, 28, 1282 (1952)). There are 3 figures and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publications reads as follows: F. Glaser, D. Moskowitz, Powder Met. Bull. 6, 178 (1953).

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S/032/61/027/008/018/020
B124/B215

Device for measuring...

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov Akademii
nauk USSR (Institute of Powder Metallurgy and Special
Alloys of the Academy of Sciences UkrSSR)

Card 3/4

1ST AND 2ND SECTIONS PROCESSES AND PROPERTIES INDEX

Application of heat conductivity laws to explain distribution of temperature in the coke cake. VIRGIL'D Pomes 1931, No 4-5, 91 M - Math. S. L. MADORSKY

CO 21

ASST. SLA METALLURGICAL LITERATURE CLASSIFICATION

Ca

Efficiency of coke ovens. A. A. ABRAMOV AND R. V. VIKTOROV. *Thermal* 1931. No 12, 44 62. Methods for detg. coke-oven efficiency are discussed. The following factors being considered: (1) consumption of coke-oven gas for heating in cu. m./hr.; (2) heat value of gas in cala. cu. m.; (3) production in tons of coal/hr.; (4) amt. of product of combustion of gas per cu. m. of coke-oven gas; (5) heat value of product of combustion leaving regenerator; (6) amt. of air required for burning 1 cu. m. gas; (7) heat content of 1 cu. m. of air entering regenerator; (8) sensible heat per cu. m. of coke-oven gas; (9) heat losses due to radiation through the walls of the oven in cala./hr. Formulas, tables and chem. analyses of gases are given. S. I. MADONSKY

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ASTM-31A METALLURGICAL LITERATURE CLASSIFICATION

1930-1939

1940-1949

1950-1959

1960-1969

1970-1979

1980-1989

1990-1999

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2010-2019

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[illegible]

21

Mathematical investigation of the velocity of coking of the coal "saks." E. V. Vlasov, Khim. Tver'ye Topol'sk 7, 664-6 (1936).—The following formula for the coking velocity was derived: $dx/dt = \lambda(\theta_c - \theta_w)/\gamma g$, where λ is the thermal cond. of coke, θ_w and θ_c are the temps. of coke formation and of the furnace wall, resp., $2l$ is the width of the chamber, γ is mass in kg. per cu. m., and g is the heat of coke formation.

A. A. Podgorny

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p>21</p> <p>Thermal phenomena on heating a thin homogeneous layer of coal. E. V. Virogub. <i>Coal and Chem.</i> (U. S. S. R.) 11, No. 5, 17-21(1941); <i>Chem. Zvest.</i> 1943, II, 198. Various coals were heated in thin layers to investigate the relation between the formation of cracks in the coke, the pressure on the brickwork of the coke oven and the rate of temp. rise in coal. The rate of heating is effective only within definite temp. limits, which vary for different coals and are dependent on the fusion point. A certain amt. of heat is used during fusion, and this amt. is greater for coals from geol. younger deposits than for those from older deposits. No definite pressure max. was observed with coals from younger geol. deposits, since they show no max. of the fusion temp. or have such wide limits of the fusion temp. that no pressure max. can occur. For other coals the regions of fusion and solidification or the liquid state and crust formation lie so close together that the gas flow is restricted and pressure results. H. S.</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>GROUPS OF ELEMENTS</p>																																																			

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Method for the calculation of the temperature of the flame in heating with blast-furnace gas. E. V. Yurab, *Coke and Chem. (U. S. S. R.)* 9, No. 6, 10-21 (1930); *Chem. Zentr.* 1940, I, 3056.—A new method is developed for the calcul. of the temp. of the flame in the heating of coke ovens with blast-furnace gas. By the use of this method it is possible to appraise those factors which affect the productive capacity of coke ovens so heated. M. G. Moore

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7	SECTION 8	SECTION 9	SECTION 10	SECTION 11	SECTION 12	SECTION 13	SECTION 14	SECTION 15	SECTION 16	SECTION 17	SECTION 18	SECTION 19	SECTION 20	SECTION 21	SECTION 22	SECTION 23	SECTION 24	SECTION 25	SECTION 26	SECTION 27	SECTION 28	SECTION 29	SECTION 30	SECTION 31	SECTION 32	SECTION 33	SECTION 34	SECTION 35	SECTION 36	SECTION 37	SECTION 38	SECTION 39	SECTION 40	SECTION 41	SECTION 42	SECTION 43	SECTION 44	SECTION 45	SECTION 46	SECTION 47	SECTION 48	SECTION 49	SECTION 50	SECTION 51	SECTION 52	SECTION 53	SECTION 54	SECTION 55	SECTION 56	SECTION 57	SECTION 58	SECTION 59	SECTION 60	SECTION 61	SECTION 62	SECTION 63	SECTION 64	SECTION 65	SECTION 66	SECTION 67	SECTION 68	SECTION 69	SECTION 70	SECTION 71	SECTION 72	SECTION 73	SECTION 74	SECTION 75	SECTION 76	SECTION 77	SECTION 78	SECTION 79	SECTION 80	SECTION 81	SECTION 82	SECTION 83	SECTION 84	SECTION 85	SECTION 86	SECTION 87	SECTION 88	SECTION 89	SECTION 90	SECTION 91	SECTION 92	SECTION 93	SECTION 94	SECTION 95	SECTION 96	SECTION 97	SECTION 98	SECTION 99	SECTION 100
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<p>5</p> <p>(3)</p> <p>METHOD OF CALCULATING THE FLAME TEMPERATURE IN COKE-OVENS HEATED WITH BLAST-FURNACE GAS. E. V. Vironub. (Koks i Khimya, 1939, No. 6, pp. 18-21). (In Russian). A mathematical discussion. The formula derived is used in a specimen calculation and for evaluating the factors affecting the output capacity of the coke-ovens. The factors studied were the preheating of the air and gas, and the ratio of the air-gas mixture.</p>																									
<p>ASR-51A METALLURGICAL LITERATURE CLASSIFICATION</p>																									
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VIROZUB, I.D., kand. med.nauk (Donetsk)

Treatment of spinal traumas combined with injury of the spinal
cord during the acute period. Vop. neurokhir. 27 no.4:28-31
Jl-Ag'63 (MIRA 17:2)

1. Neyrokhirurgicheskaya klinika nauchno-issledovatel'skogo
instituta travmatologii i ortopedii (dir. - kand. med. nauk
T.A. Revenko).

VIROZUB, I.D.

Characteristics of medulloblastomas of the cerebellum. Zhur.
nerv. psikh. 60 no. 4:434-439 '60. (MIRA 14:4)

1. Ukrainskiy neyrokhirurgicheskiy institut (dir. - prof. A.I.
Arutyunov) i Stalinskiy nauchno-issledovatel'skiy institut travmatologii
i ortopedii (dir. - kand.med.nauk T.A. Ravenko).
(CEREBELLUM--TUMORS)

USSR / General Problems of Pathology. Tumors.
Comparative Oncology. Tumors in Humans.

U-7

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Author : Chepkiy L. P., ~~Virozub I. D.~~
Inst : Dnepropetrovsk Medical Institute.
Title : Disturbance of Thyroid Gland Function and of the
Cortical-Subcortical Neurodynamics in Cerebral
Tumors.

Orig Pub: Sb. nauchn. tr. Dnepropetr. med. in-ta, 1957, 3,
282-285.

Abstract: A study was made of the functional condition of
the thyroid gland by means of J131 on 33 patients
with super-tentorial tumors with varying localiza-
tion and structure. The data obtained was compared
with the results of an investigation of the Higher
Nervous Activity. It was established that a

Card 1/3

USSR / General Problems of Pathology. Tumors.
Comparative Oncology. Tumors in Humans.

U-7

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Abstract: definite correlation existed between the extent of a disturbance of cortico-subcortical neurodynamics, and the degree of a disturbance of the thyroid gland manifested in patients with cerebral tumors. Patients with malignant, and rarely with benign tumors, with manifestations of general cerebral symptoms, and marked depression of the cortical-subcortical neurodynamics and thyroid gland function, was observed. In malignant intracerebral tumors (multiform spongioblastoma) disturbances in the thyroid gland function and of the cortico-subcortical neurodynamics was pronounced. In benign tumors, these changes are less clearly manifested. When the tumors are localized in the mesencephalic and diencephalic area, a pronounced

Card 2/3

29

USSR / General Problems of Pathology. Tumors.
Comparative Oncology. Tumors in Humans.

U-7

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Abstract: disturbance of the cortical-subcortical neurodynamics and the thyroid gland function were observed, although the conditioned reflex activity was retained. A diffuse depression of all the sectors of the Central Nervous System, accompanied by depression of the thyroid gland function is an indication of a poor prognosis.

Card 3/3

VIROZUB, I.D., KOROL', A.P.

Disorders of certain unconditioned reflex reactions in tumors of the posterior cranial fossa [with summary in French]. Zhur.nevr. i psikh. 58 no.5:550-554 '58 (MIRA 11:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut neyrokhirurgii (dir. - prof. A.I. Arutyunov), Kiev.

(REFLEXES,

unconditioned, in tumors of posterior cranial fossa (Rus))

(BRAIN NEOPLASMS, physiology

posterior cranial fossa, unconditioned reflex changes (Rus))

VIROZUB, I.D., YANOVSKIY, G.I. (Kiyev)

"Gunshot wounds of the skull and brain; surgical anatomy and operative surgery" by E.M. Margorin. Reviewed by I.D. Virozub, G.I. Ianovskii. Nov.khir.arkh. no.2:124-126 Mr-Apr '58 (MIRA 11:6)
(HEAD--WOUNDS AND INJURIES)
(MARGORIN, E.M.)

1. VIROZUB, I. D. and SERGIYENKO, T. M.
2. USSR (600)
4. Brain
7. Method of progressive increase of intracranial pressure in continuous experiment in animals. Vop.neirokhir. 16 no. 6, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

VIROZUB, I.D.

Focal and general brain reactions in tumors of the cerebellum of
varying histological structure. Probl.neirokhir. 4:49-58 '59.
(MIRA 13:11)

(CEREBELLUM--TUMORS)

VIROZUB, I.V.

68-9-5/15

AUTHOR: Virozub, I.V. (Cand.Tech.Sc.)

TITLE: Stability of the Hydraulic and Thermal Conditions of a Heating System for Coke Ovens (Ustoychivost' gidravlichesko i teplovogo rezhimov otopitel'noy sistemy koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1957, Nr 9, pp.22-28 (USSR)

ABSTRACT: The control of heating coke ovens by the amount of heat and air supplied and hydraulic conditions of the heating system are discussed. Calculations of the relationship of pressure conditions at various points of the heating system are carried out. The relation of air and gas consumption and the calorific value of gas is shown in Fig.2 and the dependence of the quantity of combustion products on the calorific value of gas (at excess air 1.15) in Fig.3. There are 3 figures.

ASSOCIATION: UKhIN.

AVAILABLE: Library of Congress.

Card 1/1

PHASE I BOOK EXPLOITATION SOV/5376

Akademiya nauk Ukrayins'koyi RSR. Kyiv. Instytut teploenerhetyky.

Teploobmin ta hidrodynamika (Heat Exchange and Hydrodynamics) Kyiv, Vydavnytstvo AN UkrSSR, 1959. 76 p. (Series: Its: Zbirnyk prats', vyp. 16) 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrayins'koyi RSR. Instytut teploenerhetyky.

Editorial Board: Resp. Secretary: A. Sh. Dorfman, Candidate of Technical Sciences, O. S. Yeremenko, Candidate of Technical Sciences, O. O. Kremn'ov, Candidate of Technical Sciences, V. I. Kuznetsov, Candidate of Technical Sciences, P. I. Lavrov, Candidate of Technical Sciences, M. M. Nazarchuk, Candidate of Technical Sciences, V. I. Tolubyns'kyi, Corresponding Member, Academy of Sciences UkrSSR, I. T. Shvets', Academician, Academy of Sciences UkrSSR. Resp. Ed.: H. M. Shchoholev, Candidate of Technical Sciences; Ed.: I. V. Kisina; Tech. Ed.: V. I. Yurchyshyn.

Card--1/4

Heat Exchange (Cont.)

SOV/5376

PURPOSE : This collection of articles is intended for scientific workers and engineers concerned with the construction of turbines.

COVERAGE: The booklet, published in Ukrainian, contains 10 articles dealing with problems of improving gas turbines. Results of investigations of processes in the combustion chamber and of heat-exchange processes taking place in turbine components are given. Aerodynamic problems of cascades of turbine blades and of tubes are discussed and theoretical research in boundary-layer problems is considered. Each article is followed by a brief résumé in Russian. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Shvets', I. T., and V. O. Khrystych. Experimental Investigations of Basic Characteristics of the Evaporation-Type Combustion Chambers of Gas Turbines 3

Virozub, I. O. Solution of Equations of the Laminar Boundary
Card 2/4

Heat Exchange (Cont.)

SOV/5376

Layer by Generalizing the Kochin-Loytsyans'kyy Method for the Case With the Presence of Heat Exchange	13
Nazarchuk, M. M. On Isothermal Flow of Gas in Pipes	23
Horbatyy, Yu. P., A. Sh. Dorfman, N. Y. Pol'skyy, and M. I. Saykovs'kyy. Aerodynamic Investigations of Models of Gas Turbine Nozzles	25
Stradoms'kyy, M. V. Investigations of Mixing Processes in Combustion Chambers of Gas Turbines Fueled With Natural Gas	35
Borovs'kyy, V. R. Investigations of the Drying Process of Silk Thread	41
Minyaylenko, M. O. Simplified Methods for Calculating the Temperature Field and Maximum Peripheral Stress in a Cooled Disk of a Turbine Under Starting Conditions	53

Card ~~3/4~~

VIROZUB, I.V.; BELETSKAYA, A.F.; FONGMARENKO, M.S.

Letters to the editors. *Koks i Khim.* no.7:52-59 '65.

(MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.

0100000111

68-11-6/11

AUTHORS: Virozub, I.V., Voloshin, A.I. and Shvarts, S.A.,
Candidates of Technical Sciences.

TITLE: Improvement of Thermal and Technological Operating Conditions
of Coke Ovens (Sovershenstvovaniye teplovogo i tekhnolog-
icheskogo rezhimov koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1957, No.11, pp. 29 - 35 (USSR)

ABSTRACT: Review in general terms of the improvements in coking
practice during the last 40 years.

There are 4 figures.

ASSOCIATION: UKhIN

AVAILABLE: Library of Congress

Card 1/1

68-1-5/22
AUTHORS: Virozub, I.V., Voloshin, A.I., Kazmina, V.V., and
Sherman, M.Ya.

TITLE: The Control of Thermal Conditions of Coke Ovens (Regulirovaniye teplovogo rezhima koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, No.1, pp. 17 - 24 (USSR)

ABSTRACT: Some relationships between various parameters affecting thermal conditions of coke ovens are discussed in order to indicate the basis for choosing some parameters as sources of impulses for the automatic control of the coke oven heating system. UKhIN and TsLA (Central Laboratory of Automation) proposed a system of automatic control of thermal conditions of coke ovens which secures a constant supply of heat and a constant excess of air coinciding at a constant temperature of air in the tunnel, with a constant suction at the top of the regenerators in the ascending stream. The proposed system is described in some detail (Figs. 1 and 2). It was installed on the No. 1 battery of the Zaporozhsk Coke Oven Works (Zaporozh'ye koksokhimicheskiy zavod) and operated for about two years with satisfactory results. In addition to the described method of direct control of the supply of heat, three other indirect methods were installed and operated in the Soviet Union: 1) a scheme proposed by V.G. Mosyakov. The

Card1/3

68-1-5/22

The Control of Thermal Conditions of Coke Ovens.

control of gas supply is based on the stability of suction at the top of the gas regenerators on the ascending stream and that of the draught on the descending stream. The scheme was installed on the Zaporozhsk Coke Oven Works; its operation is described in Koks i Khimiya, 1958, No.1, pp. 25-29. 2) On the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskiy Kombinat) an automatic control of heating coke ovens is in operation. This is based on the maintenance of a constant suction in the waste flues mains on both sides of the battery and a constant content of oxygen in the combustion products by varying the addition of coke oven gas (ovens are heated with a mixture of coke oven and blast furnace gas). The method is described in this issue, pp. 30-35. 3) On the Zhdanovsk Coke Oven Works (Zhdanov koksokhimicheskiy zavod, the method of controlling the supply of air for combustion proposed by D.A. Amstislavskiy was based on the maintenance of constant suction at the top of the regenerators on the ascending stream. With this method, variations of the coefficient of excess air during the period between reverses are removed. The deficiency of the method is that air supply changes with changes in air temperature and a low accuracy of the control due to low suction

Card2/3

.The Control of Thermal Conditions of Coke Ovens.

68-1-5/22

at the top of the regenerators. This method with some modifications was used for the above described TsLA-UKhIN method. In conclusion, the authors point out that further studies of the methods used is necessary in order to choose the best elements from each method for the development of a scheme for complete automation of heating coke ovens.

There are 4 figures and 6 Slavic references.

ASSOCIATIONS: UKhIN and TsLA

AVAILABLE: Library of Congress
Card 3/3

VOLOSHIN, A.I.; VIROZUB, I.V.; KAZMINA, V.V.

Heat consumption in coking and ways for its reduction. Koks i khim.
no.10:20-24 '62. (MIRA 16:9)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke ovens)

VIROZUB, I.V.

VIROZUB, I.V., kand.tekhn.nauk

Stability of the hydraulic and thermal conditions of the heating
system of coke ovens. Koks i khim.no.9:22-28 '57. (MIRA 10:12)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke ovens)

VIROZUB, I.Y.; VOLOSHIN, A.I.; LGALOV, K.I.

Heat expended for coking. Koks i khim. no.5:23-29 '60.
(MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut (for Virozub, Voloshin).
2. Koksokhimstantsiya (for Lgalov).
(Coal—Carbonization)

VIROZUB, I.W., kand. tekhn. nauk; VOLOSHIN, A.I., kand. tekhn. nauk; SHVARTS,
S.A., kand. tekhn. nauk.

Improving the heating and operating of coke ovens. Koks i khim.
no.11:29-35 '57. (MIRA 10:12)

1. Khar'kovskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.
(Coke ovens)

UIROZUB, I.V.

5(1) PAGE 1 BOOK EXPLORATION 80W/2127

Kozhishchevskoye predvideniye) sbornik statey (By-Product Coking Industry: Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.

Ed.: Z. S. Filippov; Ed. of Publishing House: A. A. Moryakin; Yuzh. Ed.: Z. S. Filippov

FOREWORD: The book is intended for engineers and technicians in the by-product coking industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.

CONTENTS: The articles in this collection on the by-product coking industry appeared originally either in the periodical *By-Product Coking Industry (Koks i Khimicheskoye predvideniye)* or in other publications during 1955-1965. The book discusses the development of new material reserves for coking, technology of the manufacture of coke, quality of coke and further enlargement of the number of chemical coking products obtained. Some articles are devoted to a new procedure for preparing and beneficiating coals, new methods for coking, and to the mechanization and automation of industrial processes. References accompany individual articles.

SYNOPSIS: M. G. I. M. Lazarevich, and M. G. Poliforov. [UDC: 662.6] The Basic Principles for Preparation of Coals for Coking by Coking

Byproduct, Y. Ya. [Candidate of Technical Sciences, UDC: 662.6]. Beneficiation of Coking Coals in Heavy Media 76

Kozhishchevskoye predvideniye) sbornik statey (By-Product Coking Industry: Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.

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Byproduct, Y. Ya. [Candidate of Technical Sciences, UDC: 662.6]. Beneficiation of Coking Coals in Heavy Media 76

Kozhishchevskoye predvideniye) sbornik statey (By-Product Coking Industry: Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.

Ed.: Z. S. Filippov; Ed. of Publishing House: A. A. Moryakin; Yuzh. Ed.: Z. S. Filippov

Card 1/1

20/10
10-20-59

VIROZUB, I. V.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 151 - I

BOOK

Call No.: TP336.V38

Authors: VIROZUB, I. V., TAKHTAMYSHEV, E. Ya., and TSIPEROVICH, M. V.

Full Title: MECHANICAL EQUIPMENT IN COKE-CHEMICAL PLANTS

Transliterated Title: Mekhanicheskoye oborudovaniye kokso-khimicheskikh zavodov

Publishing Data

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Ferrous and Nonferrous Metallurgy.

Date: 1952

No. pp.: 516

No. of copies: 3,000

Editorial Staff

Editor: Kvasha, A. S.

Editor-in-Chief: None

Tech. Ed.: None

Appraisers: Kvasha, A. S. and Shepelev, I. G.

Text Data

Coverage: The authors describe basic equipments and technological processes for the production and enrichment of coke, and give the analytical expressions for computation of essential data on various intermediate processes such as crushing, enrichment, dust removal, washing, settling, filtration, and drying. Formulas for computation of stresses in different chemical apparatuses and the table of materials resistant to chemical action are also given. The last part of the book contains

Mekhanicheskoye oborudovaniye kokso-khimicheskikh zavodov

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a description of mechanical equipment for the repair shop.

The analytical approach in the development of chemical process and in design of equipment may be of interest for specific purposes.

Purpose: A textbook for students of the technical colleges and schools, and for factory personnel.

Facilities: Professors Doroshenko, Voyslav, Korzukhin and Gus'kov developed the theory of enrichment of coke, and Professor Doctors V. P. Lyashchenko and L. B. Levenson the theory of enriching equipment and crushers. Prof. G. O. Chechot organized scientific research institutes for the study of the mechanical processing of minerals. N. M. Zhavoronkov, M. D. Kuznetsov, M. E. Posin, K. N. Shabalin and others worked on the theory of chemical processes in the scrubber and on the process of absorption. Tregubov, Obryadchikov, Khozryakov, Gel'perin gradually developed the theory of rectification apparatus. Academician M. V. Kirpichev introduced the theory of design of the experimental models of heat exchangers used in the production of coke. The new coke industry was built not only in the southern part of the USSR but also in the eastern, the Ural-Kuzbass.

No. of Russian and Slavic References: 21 (from 1937 to 1950)

Available: Library of Congress.

68-9-5/15

AUTHOR: Virozub, I.V. (Cand.Tech.Sc.)

TITLE: Stability of the Hydraulic and Thermal Conditions of a Heating System for Coke Ovens (Ustoychivost' gidravlicheskogo i teplovogo rezhimov otopitel'noy sistemy koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1957, Nr 9, pp.22-28 (USSR)

ABSTRACT: The control of heating coke ovens by the amount of heat and air supplied and hydraulic conditions of the heating system are discussed. Calculations of the relationship of pressure conditions at various points of the heating system are carried out. The relation of air and gas consumption and the calorific value of gas is shown in Fig.2 and the dependence of the quantity of combustion products on the calorific value of gas (at excess air 1.15) in Fig.3. There are 3 figures.

ASSOCIATION: UKhIN.

AVAILABLE: Library of Congress.

Card 1/1

S/262/62/000/004/024/024

1014/1252

AUTHOR: Eremenko, O. S., Horbatyy, Yu. P. and Virozub, I. O.

TITLE: On radial equilibrium in a turbine rotor

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962, 89, abstract 42.4.562. "Collection prats'. in-ta teploenerg" AN URSR, 1961, no. 22, 55-59

TEXT: An approximate method for determination of flow parameters in a turbine rotor is considered with centrifugal and Coriolis accelerations taken into account. It was assumed that the liquid is ideal and non-compressible, the flow non-turbulent in absolute motion, and the cascade cylindrical. Approximate formulas were obtained for the dependence of velocity and pressure on the radius of the inter-blade channel section, and on the distance along the turbine axis.

[Abstracter's note: Complete translation.]

Card 1/1

VIROZUB, Ioel' Vul'fovich; KUSTOV, Boris Iosifovich [deceased]; SHVARTS, S.A., otv.red.; SINYAVSKAYA, Ye.K., red.izd-vs; ANDREYEV, S.P., tekhn.red.

[Heat processes in coke ovens; heat engineering and the technology of the coking process] Teplovoi rezhim koksovykh pechei; teplo-tekhnika i tekhnologiya protsessov koksovaniia. Khar'kov, Gos. nauchno-tekhn.izd-vo lit-ry po chernoii i tsvetnoi metallurgii, 1960. 237 p. (MIRA 13:9)
(Coke ovens--Combustion) (Heat--Transmission)

ACC NR: AT7002159

SOURCE CODE: UR/0000/66/000/000/0097/0102

AUTHOR: Virozub, I. Ye; Turtushkin, N. A.

ORG: Institute of Technical Thermophysics AN UkrSSR (Institut tekhnicheskoy teplofiziki AN UkrSSR)

TITLE: Aerodynamic losses due to the pipe branches in the air cooler of the GTU-25-700 gas turbine installation

SOURCE: AN UkrSSR. Termodinamika teplovykh dvigateley (Thermodynamics of heat engines). Kiev, Izd-vo Naukova dumka, 1966, 97-102

TOPIC TAGS: aerodynamic design, gas turbine, turbine compressor

ABSTRACT: Full-scale tests of the GTU-25-700 gas turbine installation in operation at the Kiev Heat and Electric Power Plant No. 2 show that considerable losses of pressure take place in the pipe branches of the air cooler between the high- and low-pressure compressors. It is shown that the aerodynamic losses in these elements may be considerably reduced by changes in design. A model of the existing air cooler is shown in Figure 1 with the improved model shown in Figure 2. The difference between the maximum and minimum static pressures in the second model is less than 200 mm water gauge, while the corresponding figure for the first model reaches 570 mm. While this factor certainly affects the operation of the cooler, the reduction in aerodynamic

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ACC NR: AT7002159

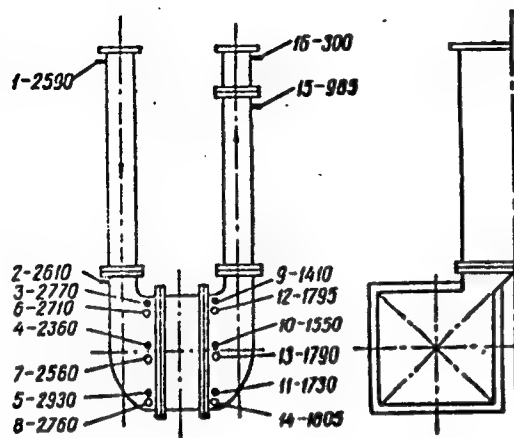


Fig. 1

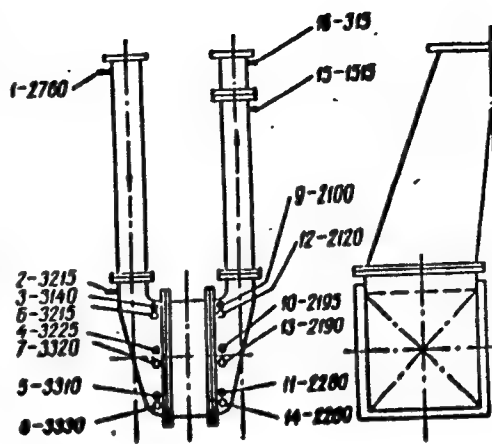


Fig. 2

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ACC NR: AT/002159

losses alone results in an increase in the power of the installation. Estimates show that the power may be increased by design modifications of this type by approximately 300-400 kw. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13, 20/ SUBM DATE: 27Jul66

Card 3/3

SOV/81-59-13-46027

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 13, p 253 (USSR)

AUTHOR: Virozub, I.Ye.

TITLE: An Approximate Method for Calculating the Fields of Velocity and Temperatures in the Passing of a Laminar Flow of a Compressible Liquid, With Heat Exchange Around a Profile

PERIODICAL: Sb. tr. In-t teploenerg. AN UkrSSR, 1958, Nr 14, pp 108 - 116

ABSTRACT: The article has not been reviewed.

Card 1/1

VIROZUB, Ivan Yemel'yanovich; YEREMENKO, Aleksandra Semenovna;
KHAZANET, S.M., red. izd-va; BEREZOVSKAYA, D.N., tekhn.
red.

[Jet engines] Reaktivnye dvigateli. Kiev, Izd-vo AN Ukr.SSE,
1963. 80 p. (MIRZ 16:11)

(Jet propulsion)
(Space vehicles—Propulsion systems)

PHASE I BOOK EXPLOITATION

SOV/6059

Yeremenko, Aleksandra Semenovna, Ivan Yemel'yanovich Virozub, Yuriy Pavlovich Gorbatty, Ivan Lazarevich Mironenko, and Anna Petrovna Fedosenko

Metody eksperimental'nogo issledovaniya aerodinamiki osevykh turbomashin (Methods for the Experimental Investigation of the Aerodynamics of Axial Turbomachines). Kiev, Izd-vo AN UkrSSR, 1961. 129 p. 2550 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut teploenergetiki.

Ed. of Publishing House: N. M. Titova; Tech. Ed.: T. R. Liberman.

PURPOSE: This book is intended for technical personnel of scientific research institutes and plant laboratories concerned with problems of aerodynamic investigations of the components of the turbine flow-passage area.

COVERAGE: The book deals with some problems of the method of aerodynamic investigation of parts of steam and gas turbines, measuring technique, and the

Card 1/2 2

Methods for the Experimental Investigation (Cont.)

SOV/6059

building of experimental models. It describes various types of instruments for measuring the parameters of two- and three-dimensional flows, methods of making and calibrating these instruments and also the manufacturing technology of model turbine blades. It describes also the most frequently used stands for investigating turbine blade cascades in stationary conditions and in motion. Candidate of Technical Sciences V. I. Pechuk assisted in the preparation of the first draft of the manuscript. The authors thank Ye. P. Dyban for his valuable remarks. There are 41 references: 39 Soviet, 1 English, and 1 French.

TABLE OF CONTENTS:

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1. On the similitude of phenomena	5
2. Criteria of similitude	6

Card 2/2

YEREMENKO, Aleksandr Semenovna; VIROZUB, Ivan Yemel'yanovich; GORBATYY, Yuriy Pavlovich; MIRONENKO, Ivan Lazarevich; FEDOSENKO, Anna Petrovna; DIBAN, Ye.P., kand. tekhn. nauk, retsenzent; TITOVA, N.M., red. izd-va; LIEBMAN, T.R., tekhn. red.

[Experimental investigation of the aerodynamics of axial-flow turbomachines] Metody eksperimental'nogo issledovaniia aerodinamiki osevykh turbomashin. Kiev, Izd-vo Akad. nauk USSR, 1961. 129 p. (MIRA 15:5)

(Turbomachines--Aerodynamics)

YEREMENKO, A.S.[I~~E~~remenko, O.S.]; GORBATYY, Yu.P.[Horbati~~y~~, IU.P.];
VIROZUB, I.Ye.[Virozub, I.O.]

Radial equilibrium in the rotor of a turbine. Zbir. prats'
Inst. tepl. AN URSR no.22:55-59 '61. (MIRA 16:6)

(Turbines)

VIROZUB, I.Ye. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatiy, IU.P.]; YEREMENKO, A.S.
[Ieremenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Some results of the study of a circular lattice. Zbir. prats' Inst.
tepl. AN URSS no.24:86-90 '62. (MIRA 16:3)
(Turbines)

VIROZUB, I.Ye. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatiy, IU.P.]; YEREMENKO, A.S.
[IYerenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Aerodynamic studies of a turbine stage with relatively short blades
and variable modes of operation. Zbir. prats' Inst. tepl. AN URSS
no.24:91-97 '62. (MIHA 16:3)
(Turbines) (Fluid dynamics)

YEREMENKO, A.S. [I Ere men ko, O.S.]; VIROZUB, I.Ye. [Virozub, I.O.]

Radial equilibrium in a turbine stage, and the hypothesis of
cylindrical sections. Dop. AN URSR no.3:379-383 '62. (MIRA 15:5)

1. Institut teploenergetiki AN USSR. Predstavleno akademikom
AN USSR I.T.Shvetsom [Shvets', I.T.].
(Turbines) (Heat engineering)

S/096/62/000/006/010/011
E032/E314

26.2/11
AUTHORS: Virozub, I.Ye., Engineer and Dorfmann, A.Sh.,
Candidate of Technical Sciences

TITLE: On the optimum form of a diffuser

PERIODICAL: Teploenergetika, no. 6, 1962, 88 - 91

TEXT: The authors are concerned with an axially symmetric diffuser of given length and degree of divergence. The diffuser is assumed to have curvilinear generators and therefore the problem is more general than that discussed by other workers so far. It is shown that the optimum form may be reduced to the determination of a curve $R = R(x)$ which is such that the integral

$$\zeta = 4 \int_0^L \varphi(R') R' \frac{R^2 - 1}{R^5} dx \quad (6)$$

is a minimum, where R is the radius of the diffuser at a distance x along the axis, $R' = dR/dx$ and φ is a function describing the ratio of losses due to divergence to losses due

Card 1/2

S/096/62/000/006/010/011

On the optimum form of a diffuser EC32/E314

to impact. It is shown that this variational problem does not have a solution for which $R(x)$ is a differentiable curve. It is therefore concluded that the profile of the diffuser with a minimum loss is not a smooth curve but contains two discontinuous changes in the cross-sectional area: one at the entrance and one at the exit. Explicit formulae are derived for the shape of the profile. They are found to be in qualitative agreement with published experimental data for plane diffusers. It is pointed out in conclusion that although frictional effects are neglected in this analysis, they should have little effect on the final formulae. There are 8 figures. c

ASSOCIATION: Institut teploenergetiki AN UkrSSR
 (Institute of Heat Engineering, AS UkrSSR)

Card 2/2

VIROZUB, I.YE. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatyi, IU.P.];
YEREMENKO, A.S. [Ieremenko, O.S.]

Determining the characteristics of turbine lattices. Zbir. prats'
Inst. tepl. AN URSR no. 20:28-35 '60. (MIRA 14:4)
(Turbines—Aerodynamics)

VIROZUB, I.Ye.

Approximate method for calculating the velocity and temperature fields during the flow of a laminar compressible liquid around a profile in connection with heat exchange. Trudy Inst. tepl. AN URSS no.14:108-116 '58. (MIRA 12:4)
(Boundary layer) (Heat—Transmission)

117 AND 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

PROCESSES AND PROPERTIES INDEX

21

m

*Method of Determining the Machinability of Metals. I. A. (Ming and P. H. Verrill) (Zavod. Lab., 1940, 8, 1023-1026; *Chem. Zvest.*, 1942, 113, (1), 261; *C. Abs.*, 1943, 37, 3370). [In Russian.] A device for testing the machinability of iron, steel, and non-ferrous metals is described. The instrument is easy to operate, and the effect of structural inhomogeneities is eliminated by the use of small specimens. The machining mechanism, and the effects of structure and tool dimensions, can be studied. The instrument permits the determination of cutting indexes at room and elevated temperatures, and the measurement of the tool temperature. The cutting indexes at a speed of 0.4 m./minute have been determined for cast iron, steel, alloy steels, brass, and bronze.

ASTM-SLA DETALLURGICAL LITERATURE CLASSIFICATION

VIROBYANTS, K A

VIROBYANTS, R.A.

Classification of furnace black. Kauch. 1 rez. 16 no.8:18-21 Ag '57.
(MIRA 10:11)

1. Izhemskiye sazhevyie zavody.
(Carbon black)

VIROZUB, I. Ye. [Virozub, I. O.]

Solutions of equations of a laminar boundary layer by generalization
of the Kochin-Loitsianskii method with heat exchange. Zbir.prats'
Inst.tepl. AN URST no.16:13-22 '59. (MIRA 13:10)
(Thermodynamics)

VIROZUB Ye-V

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich; GABAY, Lev Izrailevich, DIDENKO, Viktor Yefimovich; ZASHKVARA, Vasil'y Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr Matveevich; KOMANOVSKIY, Maksim Semenovich; LMYTES, Viktor Abramovich, MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich. OBUKHOVSKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV, Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasil'y Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir' Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich; SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskii redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the dissemination of advanced practices] Poluchenie domennogo koksa postoiannogo kachestva; sbornik statei po obmenu peredovym opytom. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8)
(Coke industry)

MOSOLOV, N.N. [deceased]; VIHRILEP, P.R.

New technology of applying B-83 antifriction alloy to segments
of the bearing of hydrogenerators. Elektrosila no.14:93-94 '56.
(MIRA 12:12)

(Bearing (Machinery)) (Electric generators)

VIRSALADZE

USSR/Human and Animal Physiology - Internal Secretions.

R-8

Abs Jour : Referat Zhur - Biol., No 16, 1957, 70914

Author : Virsaladze

Inst :

Title : The Healing Action of Adiurecrine in Diabetic Insipidus
Urine-Exhaustion.

Orig Pub : Tr. Tbulissk. gos. med. in-ta, 1956, 9, 133-136

Abstract : No abstract.

Card 1/1

- 43 -

VIRSAŁADZ', K. S.

22663 Virsaladze, K. S., K Voprosu O Kardiospazme. Trudy (Tbilis. Gos.
Med. In-T) T. V, 1948, S. 125-32--NA Gruz. Yaz---Resyume Na. Rus. Yaz

So: Letopis', No. 30, 1949

VIRSALADZE, K.S.

22663. VIPSALADZE, K.S. K voprosu o kardiospazme. Trudy (tbilis. gos. med. in-t),
T. V, 1948 S. 125-32.- na gruz. yaz. - rezyume na rus. yaz.

SO: LETOPIS' No. 20, 1949

VIPCAIDZE, K.S.; MERELISHVILI, N.D.

Treatment of thyrotoxicosis patients with potassium perchlorate.
Soob. AN Gruz. SSR 32 no.3:695-699 D '63.

(MUA 12:11)

VIGSALADZE, Ye. B.

"Gruzinskaya vesennyya khorovodnaya poeziya."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

VIRSHERT, O.O., inzh.

Increase in the reliability of front covers seals of TV-60-2
turbogenerators. Energetik 8 no. 12:18 D '60. (MIRA 13:12)
(Turbogenerators)

VIRSIK, F.

Design of stabilizers with a variator. El tech cas 15 no. 9:
568-572 '64.

VIRSIK, F.

A national conference on ferrites. El tech cas 13 no. 3:191 '62.

ORAVEC, Julius, inz., odborný asistent; VIRSIK, Felix, inz., odborný asistent

Pulse method for measuring the ionization time of thyratrons.
El tech cas 14 no.1:18-25 '63.

1. Katedra teoretickej a experimentalnej elektrotechniky,
Slovenska vysoka skola technicka, Mytna 32/e, Bratislava.

VIRSIK, F.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA. Vol. 35, No. 12, Dec. 1958.

VIRSIK, F. Our mountain climbers in the Caucasus Mountains. p. 468.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
Unclass.

VIRSIK, F.

Graphic solution of the problem of Wheatstone bridge. Tr. from the German. p.251.(Strojno-elektrotechnicky Casopis. Bratislava. Vol. 7; no. 4, 1956.)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

VIRSIK, F.

Bridge for induction measuring, p. 199. (Strojnoelektrotechnicky Casopis. Bratislava, Vol. 4, No. 2, 1953)

SO: Monthly list of East European Accessions, (EEAL), LC Vol 4, No. 6, June 1955, Uncl

VIRSIK, F.

Semiconductor thyratrons. p. 193.

ELEKTROTECHNICKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia,
vol. 10, no. 3, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

Z/042/63/000/001/002/003
E140/E463

AUTHORS: Oravec Július and Virsik Felix, Engineers

TITLE: Pulse method for measuring thyatron ionization time

PERIODICAL: Elektrotechnický časopis, no.1, 1963, 18-25

TEXT: The method consists in applying a pulse of defined voltage levels and of varying duration to the thyatron grid (with thyatron d.c. anode voltage as a parameter). The ionization time is given by the shortest pulse which ignites the thyatron. For an experimental argon-filled thyatron, times of the order of 1 to 7 μ s were measured and compared with values calculated from a simplified theoretical model. Agreement within an order of magnitude was obtained. There are 7 figures.

ASSOCIATION: Katedra teoretickej a experimentálnej elektrotechniky
SVŠT, Mýtna 32/e, Bratislava (Department of
Theoretical and Experimental Electrical Engineering
SVŠT, Mýtna 32/e, Bratislava)

SUBMITTED: September 14, 1962

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28600

Z/042/61/000/008/001/004
E197/E335

9.7140 (also 1164)

AUTHORS: Benda, Oldrich and Virsik, Félix
TITLE: Dynamics of flux reversal in ferrite toroids with
a rectangular hysteresis loop
PERIODICAL: Elektrotechnický časopis, no. 8, 1961,
pp. 481 - 496

TEXT: The purpose of the article is the comparison of dynamic characteristics of ferrite toroids, calculated under two different assumptions with actual experiments. The ferrite components under consideration are to be used in digital computers as memory, logic and switching elements. The authors consider a ferrite toroid as a nonlinear electrical element, the dynamic characteristics of which are dependent on the method of causing magnetic reversal and on previous magnetic history. Reference is made to recent literature in which three models were used by various workers to represent experimental results. The authors believe that only two models are needed: in weak fields a model based on the shift of the Bloch walls and in strong fields - the rotation of magnetizing vectors will give

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Dynamics of flux reversal

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E197/E335

concordance with experiments. In both cases the dynamic characteristics were obtained from the basic equation of Landau-Lifschitz, assuming that the period of the magnetizing square wave impulses are longer than 9/10 of the time needed for complete magnetic reversal. The basic formula was treated in accordance with both models and the dynamic response derived. The experiments were carried out at the Institute of Technical Physics CSAV on ferrite $Mn_{0.556}$, $Mg_{0.608}$, $Fe_{1.845}$, O_4 the cross-section of the toroid being 0.266 cm^2 and the length 7.37 cm. The equipment used for measurement is the same as described previously by B.H. Zitka.. (A generator for square-shaped current pulses - *Cs.čas. fys.*, 1960, v.10, no.3, pp. 230-234 - Ref. 11). The results of the two calculations and that of the measurement are tabulated and the distribution function of the results obtained by measurement and by the two calculations are given in Fig. 9: experimental results - small circles; Curve 1 - Block wall shift; Curve 2 - vector rotation, vertical coordinate-distribution function, horizontal coordinate-relative induction.

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Dynamics of flux reversal

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E197/E335

There are 9 figures, 2 tables and 15 references, 8 Soviet-bloc and 7 non-Soviet bloc. The four latest English-language references are: Ref. 2 - E.M. Gyorgy - Modified rotational model of flux reversal. J. Appl. Phys., 1958, XII, 29, No. 12, 1709-1712; Ref. 3 - W.L. Shevel - IBM J., 1959, I, Ref. 4 - E.M. Gyorgy - J. Appl. Phys., 1960, V, 31, No. 5 - Supplement - 110S - 117S; Ref. 13 - R.H. Tancrell, R.E. McMahon - J. Appl. Phys., 1960, V, 31, No. 5, 763-771.

ASSOCIATION: Katedra teoretickej a experimentálnej elektro-
techniky Slovenskej vysokej školy technickej
(Department of Theoretical and Experimental
Electrical Engineering, Slovak Technical University)

SUBMITTED: April 20, 1961

Card 3/4

XX

L 31092-66 EWT(1) IJP(c)

ACC NR: AP6022811

SOURCE CODE: CZ/0026/65/010/004/0321/0350

40
P

AUTHOR: Virsik, Jural.

ORG: Department of Mathematics, CSAV, Bratislava (Kabinet matematiky CSAV)

TITLE: Holonomic constraint and equations of motion in Minkowskian mechanics

SOURCE: Aplikace matematiky, v. 10, no. 4, 1965, 321-350

TOPIC TAGS: motion equation, particle motion, calculus, motion mechanics

ABSTRACT: In this paper the motion of a particle on a manifold given by the equation $\omega(x,y,z,t) = 0$ (representing a holonomic constraint in Minkowskian space-time) is studied with the methods of tensor calculus. The study of the motion of several particles under further constraints meets with difficulties when one tries to introduce metrics into the phase space, and therefore the case of only one particle is considered. Orig. art. has: 73 formulas. [JPIS]

SUB CODE: 12, 20/ SUBM DATE: 05Feb64/ ORIG REF: 001/ SOV REF: 001/ OTH REF: 001

Card 1/1

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L 38327-66 EWT(d) IJP(c)

ACC NR: AP6028001

SOURCE CODE: CZ/0045/66/000/001/0082/0090

AUTHOR: Virsik, Juraj (Bratislava)

ORG: Mathematics Institute, Slovak Academy of Sciences, Bratislava (Matematicky
ustav, Slovenska akademia vied)

TITLE: Representation of inertial particles in the Lie algebra of the Lorentz group

SOURCE: Matematicko-fyzikalny casopis, no. 1, 1966, 82-90

TOPIC TAGS: Lie group, vector analysis, homomorphism, particle physics, field theory

ABSTRACT: The explicit form of the Lie algebra $g(L)$ of the proper Lorentz group G^+ is derived and it is shown that the map $\pi \cdot \exp$ is a homomorphism (on the whole) of a certain linear subspace m of $g(l)$ onto the space of right cosets G^+/D . Since under the given conditions one can associate with each element of G^+/D an "inertial particle", this homomorphism generates a representation of inertial particles in $m \subset g(l)$. A physical interpretation of the analytic vector field on G^+ associated with an element of m is given. [Orig. art. in Eng.] [JPRS: 36,845]

SUB CODE: 12 / SUBM DATE: 27Jan65 / SOV REF: 001 / OTH REF: 001

Card 1/1

L 34590-66 ENT(d) IJP(c)

ACC NRAP6025545

SOURCE CODE: CZ/0081/66/091/001/0018/0033

AUTHOR: Jelinek, Jiri--Yelinek, I. (Prague); Virsik, Juraj--Virsik, Yu. (Bratislava)

ORG: [Jelinek] Mathematics and Physics Faculty, Charles University, Prague
(Matematicko-fyzikalni fakulta KU); [Virsik] Department of Mathematics, SAV,
Bratislava (Kabinet matematiky SAV)

TITLE: Pseudo-unitary spaces

SOURCE: Casopis pro pestovani matematiky, v. 91, no. 1, 1966, 18-33

TOPIC TAGS: space geometry, topology, mathematic space

ABSTRACT: The article discusses linear spaces endowed with two or more topologies.
The "geometric" properties of pseudo-unitary spaces are investigated. Orig. art.
has: 8 formulas. [Orig. art. in Eng.] [JPRS: 35,386]

SUB CODE: 12 / SUBM DATE: 15Aug64 / SOV REF: 001 / OTH REF: 001

Card 1/1

0916 0934

VIRSIK, K.

Study of children of tubercular mothers in Bratislava Province,
Czechoslovakia. Vop.okh.mat. 1 det. 4 no.3:78-79 My-Je '59.
(MIRA 12:8)

(BRATISLAVA PROVINCE CZECHOSLOVAKIA--TUBERCULOSIS)

VIRSIK, K.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Kraj TB Hospital (Krajská nemocnice tuberkulózy), Pod. Biskupice; Director;
K. VIRSIK, MD.

Source: Prague, Rozhledy v Tuberkulóze a v Nemocích Plicních, Vol XXI, No 6, July 61,
pp 476-482.

Data: "Pulmonary Tuberculosis Associated With Diabetes."

Authors: POZDECHOVA, E.

VIRSIK, K., MD

NEVICKY, D.,

VERSK, A.

- [illegible]

VINSIK, K., doc. dr.; POMDECHOVA, E., MUDr.

A critical view of the contemporary state of the fight against tuberculosis in Slovakia from the viewpoint of deficiencies in roentgenological and bacteriological mass screening. Cesk. zdrav. 13 no.9:439-443 S '65.

1. Krajska nemocnica tuberkulozy a chorob plucnych v Pod. Biskupiciach.

CZECHOSLOVAKIA

JEZERSKY, J; VIRSIK, K.

1. Clinic of Tuberculosis LFUK (Klinika tuberkulozy LFUK),
(for Jezersky); 2. Phthisiological Chair SUDL
(Ptizeologicka katedra SUDL), (for Virsik)

Bratislava, Lekarsky obzor, No 6, 1963, pp 339-342

"Adrenal Cortical Hormones and ACTH in the Treatment
of Tuberculosis."

VIRSIK, K.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Kraj TB Hospital (Krajska nemocnica tuberkulozy), Pod. Biskupice; Director:

K. VIRSIK, MD.

Sources: Prague, Rozhledy v Tuberkulose av Nemocach Plicnich, Vol XXI, No 6, July 61, pp 476-482.

Data: "Pulmonary Tuberculosis Associated With Diabetes."

Authors: POZDECHOVA, E.

VIRSIK, K., MD

NEVICKY, D.,

50

VIRSIK, K.

VIRSIK K.

Lieoba tuberkulovy kyseliny paraaminosalicylovou. II. Oznámení: Lieoba specifického empyemu hrudníka. kys. P. A. S.
Treatment of tuberculosis with para-aminosalicylic acid;
Treatment of specific thoracic empyema with para-aminosalicylic acid/ Bratisl. lek. listy 31:1-2 1951 p. 132-6.

1. Of the Clinic of Tuberculosis of the Medical Faculty of Slovak University, Bratislava.

VIRSIK, K.

STUNDA, S.: VIRSIK, K.

Treatment of tuberculosis with paraaminosalicylic acid; effect
of paraaminosalicylic acid on the liver. Bratisl. lek. listy 31
no. 11-12:1098-1102 1951.
(CLML 23:1)

1. Of the Tuberculosis Clinic of Slovak University.